

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2018 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

<b>ST0012</b>	Overall LMA Rating	Total LMA Miles						
<b>Sacramento Maintenance Yard Willow Slough Bypass</b>	<b>A</b>	<b>12.51</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					1.32			
Animal Control	0.01		0.01	0.08%				
Slope Stability	0.01		0.01	0.08%				
Erosion / Bank Caving	0.07		0.07	0.56%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.03			
DWR UCIP LMA Responsibility								
<i>LMA Totals:</i>	0.09	0.00	0.09	0.72%	1.35	0.00	0.00	0.00
<b>Unit No. 01 Willow Slough Bypass or North Levee LB</b>	Overall Unit Rating	Total Unit Miles						
<b>ST0012</b>	<b>A</b>	<b>5.05</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					1.21			
Erosion / Bank Caving	0.07		0.07	1.39%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.02			
<i>Unit Totals:</i>	0.07	0.00	0.07	1.39%	1.23	0.00	0.00	0.00
<b>Unit No. 02 Willow Slough Bypass or South Levee RB</b>	Overall Unit Rating	Total Unit Miles						
<b>ST0012</b>	<b>A</b>	<b>7.46</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					0.11			
Animal Control	0.01		0.01	0.13%				
Slope Stability	0.01		0.01	0.13%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.01			
DWR UCIP LMA Responsibility								
<i>Unit Totals:</i>	0.02	0.00	0.02	0.27%	0.12	0.00	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections****LMA District Cover Sheet****Fall 2018 Levee Inspection Results****Sacramento Maintenance Yard Willow Slough Bypass**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			A	

\*\* Non-receipt of Summer or Winter Inspection  
Reports may effect overall annual rating.

†

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2018 Levee Inspection Results**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway			Bank	Unit Miles
Unit No. 01 Willow Slough Bypass or North Levee			Left	5.05
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	4/12/2018 - 4/12/2018		9/5/2018 - 9/5/2018	
DWR Inspector	Zach Jojola		Zach Jojola	
Accompanied By	James McCabe DWR		James McCabe DWR	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	09/05/2018 09/05/2018	Zach Jojola

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_ST0012_01_s _ 2013_6				
Comment Code					
Inspector Comment					
Sacramento Maintenance Yard has copies of their O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_ST0012_01_s _ 2013_7				
Comment Code					
Inspector Comment					
Sacramento Maintenance Yard has a stockpile of flood response material.					

No Photos

LM Start		Rating **	A	Issue No.	8
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_ST0012_01_s _ 2013_8				
Comment Code					
Inspector Comment					
Sacramento Maintenance Yard has a written flood response plan and flood fight training.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	09/05/2018 09/05/2018	Zach Jojola

LM Start	0.00	Rating **	M	Issue No.	17
LM End	0.06	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.590772 °	38.590758 °
				-121.665343 °	-121.666370 °
DWR ID	DWR_ST0012_01_s_2017_17				
Comment Code					
FE : Fence					
Inspector Comment					
Chain link fence.					

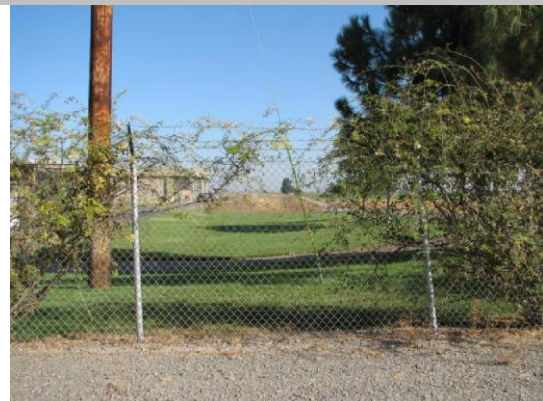
Photo 1 of 1 : FA\_2018\_ST0012\_295\_17\_20180904\_00004.jpg



View of fence on the landside shoulder. Spring 2018.

LM Start	0.02	Rating **	A/W	Issue No.	18
LM End	0.02	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.590766°	38.590766°
				-121.665560°	-121.665560°
DWR ID	17834				
Comment Code					
Inspector Comment					
FS_ID:44903 DS_ID:17834 EP_NO: 10130 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 05/02/2017 CVFPB Letter sent April 12, 2012 regarding Permit #10130 - Internal Inspections of Pipes Crossing State Plan of Flood Control Levee. Permit No. 10130 previously referenced in UCIP record was removed--permit does not reference 36-inch pipe. (O. Magana - DWR UCIP) 04/12/2017 Mud/debris on WS removed by JK, RF. (C. Lund - DWR Sacramento Yard) 05/05/2015 Removed debris from the outlet. (C. Lund - DWR Sacramento Yard) 09/19/2012 Minor debris blocking flap gate. Debris/log needs to be removed from the outlet. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 18 feet below the crown. Flap gate is located on the waterside (WS) end. [Additional Reference(s): USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station 271+54)] FS Date: 5/5/2015 8:02:11 AM					

Photo 1 of 3 : UCIP\_FA\_2018\_44903\_22882.jpg



Landside view- beyond grass area see drainage inlet

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	09/05/2018 09/05/2018	Zach Jojola

LM Start	0.02	Rating **	A/W	Issue No.	18 (cont)	
LM End	0.02	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.590766 °	38.590766 °	
				-121.665560 °	-121.665560 °	
DWR ID	17834					
Comment Code						
Inspector Comment						
FS_ID:44903 DS_ID:17834 EP_NO: 10130 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 05/02/2017 CVFPB Letter sent April 12, 2012 regarding Permit #10130 - Internal Inspections of Pipes Crossing State Plan of Flood Control Levee. Permit No. 10130 previously referenced in UCIP record was removed--permit does not reference 36-inch pipe. (O. Magana - DWR UCIP) 04/12/2017 Mud/debris on WS removed by JK, RF. (C. Lund - DWR Sacramento Yard) 05/05/2015 Removed debris from the outlet. (C. Lund - DWR Sacramento Yard) 09/19/2012 Minor debris blocking flap gate. Debris/log needs to be removed from the outlet. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 18 feet below the crown. Flap gate is located on the waterside (WS) end. [Additional Reference(s): USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station 271+54)] FS Date: 5/5/2015 8:02:11 AM						

LM Start	<b>0.02</b>	Rating **	A/W	Issue No.	<b>18 (cont)</b>
LM End	<b>0.02</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_44903\_22881.jpg



Waterside view- general view

Photo 3 of 3 : UCIP\_FA\_2018\_44903\_22880.jpg



Waterside overview. Notice waterway.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	09/05/2018 09/05/2018	Zach Jojola

LM Start	0.03	Rating **	A/W	Issue No.	19	
LM End	0.03	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.590771 °	38.590771 °	
				-121.665860 °	-121.665860 °	
DWR ID	17613					
Comment Code						
Inspector Comment						
FS_ID:44904						
DS_ID:17613						
EP_NO: 10309						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 09/19/2012 Abandoned in place. CMP filled with concrete. (DWR UCIP - P. Amatya)						
FIELD_STRUCT_DESC: 30-inch steel drainage pipe through the levee, 16.5 feet below the crown. Flap gate is located on the waterside (WS) end. Manhole and grate are located on the landside (LS) toe. (30-inch pipe [HLM 0.01] authorized under Automatic Board Order (ABO) issued as Permit No. 10309, 1974 - City of Davis). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station 270+70)]						
FS Date: 5/5/2015 8:02:49 AM						

LM Start	<b>0.03</b>	Rating **	A/W	Issue No.	<b>19 (cont)</b>
LM End	<b>0.03</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_44904\_22885.jpg



Waterside view- CMP grouted with concrete.

Photo 2 of 3 : UCIP\_FA\_2018\_44904\_22884.jpg



Waterside view- CMP grouted with concrete (closer view)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	09/05/2018 09/05/2018	Zach Jojola

LM Start	0.03	Rating **	A/W	Issue No.	19 (cont)	
LM End	0.03	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.590771 °	38.590771 °	
				-121.665860 °	-121.665860 °	
DWR ID	17613					
Comment Code						
Inspector Comment						
FS_ID:44904						
DS_ID:17613						
EP_NO: 10309						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 09/19/2012 Abandoned in place. CMP filled with concrete. (DWR UCIP - P. Amatya)						
FIELD_STRUCT_DESC: 30-inch steel drainage pipe through the levee, 16.5 feet below the crown. Flap gate is located on the waterside (WS) end. Manhole and grate are located on the landside (LS) toe. (30-inch pipe [HLM 0.01] authorized under Automatic Board Order (ABO) issued as Permit No. 10309, 1974 - City of Davis). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station 270+70)]						
FS Date: 5/5/2015 8:02:49 AM						

Photo 3 of 3 : UCIP\_FA\_2018\_44904\_22886.jpg



Landside overview- pumping plant not related with this crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	09/05/2018 09/05/2018	Zach Jojola

LM Start	0.79	Rating **	A/W	Issue No.	20
LM End	0.79	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.590480 °	38.590480 °
				-121.679790 °	-121.679790 °
DWR ID	17608				
Comment Code					
Inspector Comment					
FS_ID:44907 DS_ID:17608 EP_NO: 10313 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 LS - dump has it plugged, WS - ditch need to be established debris higher than water, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 09/19/2012 Pipe sits on concrete saddle on WS. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Flap gate is located on the waterside (WS) end. (24-inch pipe [HLM 0.79] authorized under Automatic Board Order (ABO) issued as Permit No. 10313, 1974 - Lear). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 2, 4 (Station 232+43)] FS Date: 5/5/2015 8:06:14 AM					

LM Start	<b>0.79</b>	Rating **	A/W	Issue No.	<b>20 (cont)</b>
LM End	<b>0.79</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_44907\_22894.jpg



Landside view- pipe and headwall

Photo 2 of 3 : UCIP\_FA\_2018\_44907\_22893.jpg



Landside view- pipe and headwall closer view

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	09/05/2018 09/05/2018	Zach Jojola

LM Start	0.79	Rating **	A/W	Issue No.	20 (cont)	
LM End	0.79	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.590480 °	38.590480 °	
				-121.679790 °	-121.679790 °	
DWR ID	17608					
Comment Code						
Inspector Comment						
FS_ID:44907 DS_ID:17608 EP_NO: 10313 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 LS - dump has it plugged, WS - ditch need to be established debris higher than water, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 09/19/2012 Pipe sits on concrete saddle on WS. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Flap gate is located on the waterside (WS) end. (24-inch pipe [HLM 0.79] authorized under Automatic Board Order (ABO) issued as Permit No. 10313, 1974 - Lear). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 2, 4 (Station 232+43)] FS Date: 5/5/2015 8:06:14 AM						

Photo 3 of 3 : UCIP\_FA\_2018\_44907\_22892.jpg



Waterside view

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	09/05/2018 09/05/2018	Zach Jojola

LM Start	1.52	Rating **	A/W	Issue No.	21	
LM End	1.52	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.590340 °	38.590340 °	
				-121.693360 °	-121.693360 °	
DWR ID	17623					
Comment Code						
Inspector Comment						
FS_ID:44929						
DS_ID:17623						
EP_NO: 10310						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 20-inch steel drainage pipe sleeved though 30-inch corrugated metal pipe through the levee, 12.5 feet below the crown. 24-inch flap gate is located on the waterside (WS) end. (30-inch pipe [HLM 1.53] authorized under Automatic Board Order (ABO) issued as Permit No. 10310, 1974 - Hunt-Wesson Foods, Inc.)						
[Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 2 (Station 192+88)]						
FS Date: 5/5/2015 8:20:02 AM						

LM Start	<b>1.52</b>	Rating **	A/W	Issue No.	<b>21 (cont)</b>
LM End	<b>1.52</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_44929\_22929.jpg



Waterside view- pipe and flap gate

Photo 2 of 3 : UCIP\_FA\_2018\_44929\_22928.jpg



Waterside view- 20-inch pipe sleeved into 30-inch pipe

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	09/05/2018 09/05/2018	Zach Jojola

LM Start	1.52	Rating **	A/W	Issue No.	21 (cont)	
LM End	1.52	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.590340 °	38.590340 °	
				-121.693360 °	-121.693360 °	
DWR ID	17623					
Comment Code						
Inspector Comment						
FS_ID:44929 DS_ID:17623 EP_NO: 10310 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 20-inch steel drainage pipe sleeved though 30-inch corrugated metal pipe through the levee, 12.5 feet below the crown. 24-inch flap gate is located on the waterside (WS) end. (30-inch pipe [HLM 1.53] authorized under Automatic Board Order (ABO) issued as Permit No. 10310, 1974 - Hunt-Wesson Foods, Inc.) [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 2 (Station 192+88)] FS Date: 5/5/2015 8:20:02 AM						

Photo 3 of 3 : UCIP\_FA\_2018\_44929\_22931.jpg



Waterside overview

LM Start	1.53	Rating **	M	Issue No.	14
LM End	2.20	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.590334 °	38.590466 °
				-121.693618 °	-121.705849 °
DWR ID	DWR_ST0012_01_f_2016_14				
Comment Code					
FE : Fence					
Inspector Comment					
Barbed wire fence.					

Photo 1 of 1 : FA\_2018\_ST0012\_295\_14\_20180904\_00003.jpg



View of fence encroaching 10-foot easement on landward side of the levee. Fall 2016.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	09/05/2018 09/05/2018	Zach Jojola

LM Start	2.01	Rating **	A/W	Issue No.	22	
LM End	2.01	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.590390 °	38.590390 °	
				-121.702470 °	-121.702470 °	
DWR ID	17619					
Comment Code						
Inspector Comment						
FS_ID:44937						
DS_ID:17619						
EP_NO: 10307						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 04/26/2017 LS - removed debris and needs to be sprayed, work completed by JK, MH. (DWR Sacramento Yard - C. Lund)						
04/12/2017 LS - good/clear, WS - little debris (handwork-cleared) , inspected by JK, RF. (DWR Sacramento Yard - C. Lund)						
05/28/2013 flap gate cleaned and standpipe repaired. (DWR Sacramento Yard - C. Lund)						
09/19/2012 The 48-inch concrete manhole damaged - top ring knocked off in waterside. Debris found in waterside pipe. (DWR UCIP - P. Amatya)						
FIELD_STRUCT_DESC: 24-inch drainage pipe of unknown material through the levee, 10 feet below the crown. Flap gate is located on the waterside (WS) end. Concrete headwall is located on the WS and landside (LS) ends. Slide gate is located inside a 48-inch manhole located on the WS slope. (24-inch pipe [HLM 2.04] authorized under Automatic Board Order (ABO) issued as Permit No. 10307, 1974 - Beckman). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 2 (Station 165+69)]						
FS Date: 5/5/2015 8:25:25 AM						

LM Start	<b>2.01</b>	Rating **	A/W	Issue No.	<b>22 (cont)</b>
LM End	<b>2.01</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_44937\_22951.jpg



Landside view- concrete pipe and headwall.

Photo 2 of 3 : UCIP\_FA\_2018\_44937\_22949.jpg



Landside view- debris

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	09/05/2018 09/05/2018	Zach Jojola

LM Start	2.01	Rating **	A/W	Issue No.	22 (cont)	
LM End	2.01	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.590390 °	38.590390 °	
				-121.702470 °	-121.702470 °	
DWR ID	17619					
Comment Code						
Inspector Comment						
FS_ID:44937 DS_ID:17619 EP_NO: 10307 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/26/2017 LS - removed debris and needs to be sprayed, work completed by JK, MH. (DWR Sacramento Yard - C. Lund) 04/12/2017 LS - good/clear, WS - little debris (handwork-cleared) , inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 05/28/2013 flap gate cleaned and standpipe repaired. (DWR Sacramento Yard - C. Lund) 09/19/2012 The 48-inch concrete manhole damaged - top ring knocked off in waterside. Debris found in waterside pipe. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 24-inch drainage pipe of unknown material through the levee, 10 feet below the crown. Flap gate is located on the waterside (WS) end. Concrete headwall is located on the WS and landside (LS) ends. Slide gate is located inside a 48-inch manhole located on the WS slope. (24-inch pipe [HLM 2.04] authorized under Automatic Board Order (ABO) issued as Permit No. 10307, 1974 - Beckman). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 2 (Station 165+69)] FS Date: 5/5/2015 8:25:25 AM						

Photo 3 of 3 : UCIP\_FA\_2018\_44937\_22948.jpg



Waterside view- concrete manhole.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	09/05/2018 09/05/2018	Zach Jojola

LM Start	2.92	Rating **	A/W	Issue No.	23	
LM End	2.92	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.590580 °	38.590580 °	
				-121.719220 °	-121.719220 °	
DWR ID	17620					
Comment Code						
Inspector Comment						
FS_ID:44942						
DS_ID:17620						
EP_NO: 10311						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 04/12/2017 good/clear on LS & WS, inspected by JK, RF. (DWR Sacramento Yard - C. Lund)						
05/28/2013 Some small vegetation removal is needed on landside of the levee. (DWR Sacramento - C. Lund)						
09/19/2012 Vegetation removal on landside of the levee. (DWR UCIP - P. Amatya)						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 10 feet below the crown. Flap gate is located on the waterside (WS) end. (24-inch pipe [HLM 2.95] authorized under Automatic Board Order (ABO) issued as Permit No. 10311 - Ittner and Harlan). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 1 (Station 118+00)]						
FS Date: 5/5/2015 8:30:47 AM						

LM Start	<b>2.92</b>	Rating **	A/W	Issue No.	<b>23 (cont)</b>
LM End	<b>2.92</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_44942\_22962.jpg



Landside view- inlet structure

Photo 2 of 3 : UCIP\_FA\_2018\_44942\_22961.jpg



Landside view- concrete headwall

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	09/05/2018 09/05/2018	Zach Jojola

LM Start	2.92	Rating **	A/W	Issue No.	23 (cont)	
LM End	2.92	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.590580 °	38.590580 °	
				-121.719220 °	-121.719220 °	
DWR ID	17620					
Comment Code						
Inspector Comment						
FS_ID:44942 DS_ID:17620 EP_NO: 10311 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 good/clear on LS & WS, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 05/28/2013 Some small vegetation removal is needed on landside of the levee. (DWR Sacramento - C. Lund) 09/19/2012 Vegetation removal on landside of the levee. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 10 feet below the crown. Flap gate is located on the waterside (WS) end. (24-inch pipe [HLM 2.95] authorized under Automatic Board Order (ABO) issued as Permit No. 10311 - Ittner and Harlan). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 1 (Station 118+00)] FS Date: 5/5/2015 8:30:47 AM						

Photo 3 of 3 : UCIP\_FA\_2018\_44942\_22960.jpg



Landside view- vegetation around inlet.

LM Start	2.93	Rating **	M	Issue No.	10
LM End	3.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.590572 °	38.590653 °
				-121.719349 °	-121.720714 °
DWR ID	DWR_ST0012_01_s_ 2015_10				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Appears to be runoff on the landside slope. Possibly an abandoned pipeline that is caving in.					

Photo 1 of 3 : FA\_2018\_ST0012\_295\_10\_20180905\_00005.jpg



Updated view of the erosion on the landside slope. Fall 2018.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	09/05/2018 09/05/2018	Zach Jojola

LM Start	2.93	Rating **	M	Issue No.	10 (cont)	
LM End	3.00	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Erosion / Bank Caving			38.590572 °	38.590653 °	
				-121.719349 °	-121.720714 °	
DWR ID	DWR_ST0012_01_s_2015_10					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						
Appears to be runoff on the landside slope. Possibly an abandoned pipeline that is caving in.						

LM Start	<b>2.93</b>	Rating **	M	Issue No.	<b>10 (cont)</b>
LM End	<b>3.00</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : FA\_2018\_ST0012\_295\_10\_20180905\_00006.jpg



Additional view of the erosion on the landside slope. Fall 2018.

Photo 3 of 3 : FA\_2018\_ST0012\_295\_10\_20180904\_00002.jpg



View of the erosion on the landward side of the levee looking upstream. Fall 2015.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Levee Inspection Report By Mile - Fall 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	09/05/2018 09/05/2018	Zach Jojola

LM Start	<b>3.05</b>	Rating **	A/W	Issue No.	<b>24 (cont)</b>
LM End	<b>3.05</b>	Issue Type +	Ma	Location *	

A photograph of a rusted metal barrel lying on its side in a dry, sandy area. The barrel is heavily corroded and surrounded by sparse, dry vegetation and some green plants. The ground is sandy and uneven.

A photograph of a rusted metal barrel lying on its side in a sandy, arid environment. The barrel is heavily corroded and has the words "WATERMAN" and "BOSTON" embossed on its side. It is surrounded by dry, scrubby vegetation and some green plants with yellow flowers. The barrel appears to be a remnant of a historical site, possibly related to the mining operations mentioned in the text.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable	A : Acceptable                      N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable            C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable                      A/W : Acceptable but Monitor & Maintain	En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	09/05/2018 09/05/2018	Zach Jojola

LM Start	3.05	Rating **	A/W	Issue No.	24 (cont)	
LM End	3.05	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.590612 °	38.590612 °	
				-121.721689 °	-121.721689 °	
DWR ID	17621					
Comment Code						
Inspector Comment						
FS_ID:44943 DS_ID:17621 EP_NO: 10312 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 good/clear on LS & WS, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 09/19/2012 Depressions on waterside slope of the levee. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 10 feet below the crown. Flap gate is located on the waterside (WS) end. (24-inch pipe [HLM 3.08] authorized under Automatic Board Order (ABO) issued as Permit No. 10312, 1974 - Kelly). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 1 (Station 110+97)] FS Date: 5/5/2015 8:31:05 AM						

Photo 3 of 3 : UCIP\_FA\_2018\_44943\_22969.jpg



Landside view- pipe and concrete headwall.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	09/05/2018 09/05/2018	Zach Jojola

LM Start	3.55	Rating **	A/W	Issue No.	25	
LM End	3.55	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.590680 °	38.590680 °	
				-121.730720 °	-121.730720 °	
DWR ID	17622					
Comment Code						
Inspector Comment						
FS_ID:44947						
DS_ID:17622						
EP_NO: 10316						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 04/12/2017 good/clear on LS & WS, inspected by JK, RF. (DWR Sacramento Yard - C. Lund)						
05/28/2013 Debris on waterside flap gate has been removed. (DWR Sacramento Yard - C. Lund)						
09/19/2012 Debris on waterside flap gate. Needs debris removal from the pipe. (DWR UCIP - P. Amatya)						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Flap gate is located on the waterside (WS) end. Concrete pad is located on the WS. (24-inch pipe [HLM 3.57] authorized under Automatic Board Order (ABO) issued as Permit No. 10316, 1974 - Stafford). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 1 (Station 85+00)]						
FS Date: 5/5/2015 8:38:32 AM						

LM Start	<b>3.55</b>	Rating **	A/W	Issue No.	<b>25 (cont)</b>
LM End	<b>3.55</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_44947\_22984.jpg



Waterside view- overview

Photo 2 of 3 : UCIP\_FA\_2018\_44947\_22983.jpg



Waterside view- pipe, flap gate and debris.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	09/05/2018 09/05/2018	Zach Jojola

LM Start	3.55	Rating **	A/W	Issue No.	25 (cont)	
LM End	3.55	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.590680 °	38.590680 °	
				-121.730720 °	-121.730720 °	
DWR ID	17622					
Comment Code						
Inspector Comment						
FS_ID:44947						
DS_ID:17622						
EP_NO: 10316						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 04/12/2017 good/clear on LS & WS, inspected by JK, RF. (DWR Sacramento Yard - C. Lund)						
05/28/2013 Debris on waterside flap gate has been removed. (DWR Sacramento Yard - C. Lund)						
09/19/2012 Debris on waterside flap gate. Needs debris removal from the pipe. (DWR UCIP - P. Amatya)						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Flap gate is located on the waterside (WS) end. Concrete pad is located on the WS. (24-inch pipe [HLM 3.57] authorized under Automatic Board Order (ABO) issued as Permit No. 10316, 1974 - Stafford). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 1 (Station 85+00)]						
FS Date: 5/5/2015 8:38:32 AM						

Photo 3 of 3 : UCIP\_FA\_2018\_44947\_22986.jpg



Waterside view- pipe, flap gate and debris. The pipe sits on concrete saddle.

LM Start	4.12	Rating **	M	Issue No.	4
LM End	4.60	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.596784 °	38.599845 °
				-121.737662 °	-121.744830 °
DWR ID	DWR_ST0012_01_s_2012_4				
Comment Code					
DT : Ditch					
Inspector Comment					
Ditch is at the levee toe.					

Photo 1 of 1 : FA\_2018\_ST0012\_295\_4\_20180904\_00001.jpg



View of the ditch on the landward side of the levee looking downstream. Fall 2015.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	09/05/2018 09/05/2018	Zach Jojola

LM Start	4.30	Rating **	M	Issue No.	26
LM End	4.30	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.598840 °	38.598840 °
				-121.739600 °	-121.739600 °
DWR ID	17684				
Comment Code					
Inspector Comment					
FS_ID:29303 DS_ID:17684 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 09/19/2012 PG&E may provide further info. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 8-inch gas line of unknown material through both levees. (Pacific Gas and Electric Co. [PG&E]). [Additional Reference(s): USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 1 (Station 46+50)] FS Date: 5/28/2013 2:36:00 PM					

No Photos

LM Start	5.07	Rating **	M	Issue No.	27
LM End	5.07	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.599940 °	38.599940 °
				-121.753530 °	-121.753530 °
DWR ID	17667				
Comment Code					
Inspector Comment					
FS_ID:44951					
DS_ID:17667					
EP_NO: 15811					
Repair Type: Non-Urgent					
Crossing Status: Not Found					
UCIP Comments: 05/28/2013 No markers or other indication of pipe location. Needs to be marked. (DWR Sacramento Yard - C. Lund)					
FIELD_STRUCT_DESC: Replace existing 4-inch diameter natural gas pipeline with an 8-inch diameter natural gas pipeline under the channel and within both banks of Willow Slough. (Permit No. 15811, unknown year constructed - Shell Western E&P Inc.)					
FS Date: 5/5/2015 8:40:19 AM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2018 Levee Inspection Results**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway			Bank	Unit Miles
Unit No. 02 Willow Slough Bypass or South Levee			Right	7.46
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	4/12/2018 - 4/12/2018		9/5/2018 - 9/5/2018	
DWR Inspector	Zach Jojola		Zach Jojola	
Accompanied By	James McCabe DWR		James McCabe DWR	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	0.03	Rating **	C	Issue No.	14
LM End	0.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.598926 °	38.598926 °
				-121.753893 °	-121.753893 °
DWR ID	DWR_ST0012_02_f_2017_14				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repaired as of inspection date.					

No Photos

LM Start	0.05	Rating **	A/W	Issue No.	13
LM End	0.10	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.599009 °	38.599097 °
				-121.753617 °	-121.752676 °
DWR ID	DWR_ST0012_02_s_2017_13				
Comment Code					
EQ : Equipment					
Inspector Comment					
Beehives on landside slope.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	0.07	Rating **	M	Issue No.	30
LM End	0.07	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.599100 °	38.599100 °
				-121.753260 °	-121.753260 °
DWR ID	17703				
Comment Code					
Inspector Comment					
FS_ID:45283 DS_ID:17703 EP_NO: 15811 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 05/10/2017 Unable to find permit file to clarify if crossing was constructed. (DWR UCIP - O. Magana) 05/24/2013 Need to contact owner of pipe to place indicators on levee. (DWR Sacramento Yard - C. Lund) FIELD_STRUCT_DESC: Replace existing 4-inch diameter natural gas pipeline with an 8-inch diameter natural gas pipeline under the channel and within both banks of Willow Slough. (Permit No. 15811, unknown year - Shell Western E&P Inc.) FS Date: 5/14/2015 1:35:47 PM					

No Photos

LM Start	0.29	Rating **	M	Issue No.	7
LM End	0.40	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.598993 °	38.599045 °
				-121.749130 °	-121.747107 °
DWR ID	DWR_ST0012_02_s_2014_7				
Comment Code					
DT : Ditch					
Inspector Comment					
The ditch is located at the levee toe.					

Photo 1 of 2 : FA\_2018\_ST0012\_296\_7\_20180904\_00004.jpg



An updated view of the ditch near LM 0.29. Fall 2016.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	0.29	Rating **	M	Issue No.	7 (cont)	
LM End	0.40	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.598993 °		38.599045 °
				-121.749130 °		-121.747107 °
DWR ID	DWR_ST0012_02_s_2014_7					
Comment Code						
DT : Ditch						
Inspector Comment						
The ditch is located at the levee toe.						

Photo 2 of 2 : FA\_2018\_ST0012\_296\_7\_20180904\_00005.jpg



View of the ditch on the landward side of the levee looking downstream. Spring 2016.

LM Start	0.83	Rating **	A/W	Issue No.	31	
LM End	0.83	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.597813 °	38.597813 °	
				-121.739636 °	-121.739636 °	
DWR ID	534					
Comment Code						
Inspector Comment						
FS_ID:45286 DS_ID:534 EP_NO: 10327 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 WS & LS - good/clear, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 05/24/2013 Flap gate repaired. (DWR Sacramento Yard - C. Lund) 09/20/2012 Flap gate is not properly closing. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 24-inch corrugated drainage pipe through the levee, 17.5 feet below the crown. Flap gate is located on the waterside (WS) slope. (24-inch pipe [HLM 0.78] authorized under Automatic Board Order (ABO) issued as Permit No. 10327 - Heidrick). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 1 (Station 47+00)] FS Date: 5/14/2015 1:36:52 PM						

Photo 1 of 3 : UCIP\_FA\_2018\_45286\_22464.jpg



Waterside view- concrete headwall and CM pipe

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	0.83	Rating **	A/W	Issue No.	31 (cont)
LM End	0.83	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.597813 °	38.597813 °
				-121.739636 °	-121.739636 °
DWR ID	534				
Comment Code					
Inspector Comment					
FS_ID:45286 DS_ID:534 EP_NO: 10327 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 WS & LS - good/clear, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 05/24/2013 Flap gate repaired. (DWR Sacramento Yard - C. Lund) 09/20/2012 Flap gate is not properly closing. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 24-inch corrugated drainage pipe through the levee, 17.5 feet below the crown. Flap gate is located on the waterside (WS) slope. (24-inch pipe [HLM 0.78] authorized under Automatic Board Order (ABO) issued as Permit No. 10327 - Heidrick). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 1 (Station 47+00)] FS Date: 5/14/2015 1:36:52 PM					

LM Start	<b>0.83</b>	Rating **	A/W	Issue No.	<b>31 (cont)</b>
LM End	<b>0.83</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_45286\_22460.jpg



Waterside view- overview

Photo 3 of 3 : UCIP\_FA\_2018\_45286\_22461.jpg



Waterside view- CM pipe and flap gate.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	1.21	Rating **	A/W	Issue No.	32
LM End	1.21	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.593390 °	38.593390 °
				-121.735600 °	-121.735600 °
DWR ID	536				
Comment Code					
Inspector Comment					
FS_ID:13725 DS_ID:536 EP_NO: 10331 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 WS & LS - good/clear, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 09/20/2012 Landside- upper corner of headwall was chipped off. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Flap gate is located on the waterside (WS) end. (24-inch pipe [HLM 1.15] authorized under Automatic Board Order (ABO) issued as Permit No. 10331, 1974 - Lavezzo). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 1 (Station 66+98)] FS Date: 5/24/2013 8:22:08 AM					

LM Start	1.21	Rating **	A/W	Issue No.	32 (cont)
LM End	1.21	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_13725\_22470.jpg



Waterside view- flap gate and CM pipe

Photo 2 of 3 : UCIP\_FA\_2018\_13725\_22469.jpg



Landside view- concrete headwall and pipe

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	1.21	Rating **	A/W	Issue No.	32 (cont)
LM End	1.21	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.593390 °	38.593390 °
				-121.735600 °	-121.735600 °
DWR ID	536				
Comment Code					
Inspector Comment					
FS_ID:13725 DS_ID:536 EP_NO: 10331 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 WS & LS - good/clear, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 09/20/2012 Landside- upper corner of headwall was chipped off. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Flap gate is located on the waterside (WS) end. (24-inch pipe [HLM 1.15] authorized under Automatic Board Order (ABO) issued as Permit No. 10331, 1974 - Lavezzo). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 1 (Station 66+98)] FS Date: 5/24/2013 8:22:08 AM					

Photo 3 of 3 : UCIP\_FA\_2018\_13725\_22468.jpg



Landside view- concrete headwall corner chipped off

LM Start	1.21	Rating **	A/W	Issue No.	23
LM End	1.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.593368 °	38.593368 °
				-121.735605 °	-121.735605 °
DWR ID	DWR_ST0012_02_f_2016_23				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on waterward side at utility crossing. Doesn't appear to be within prism, but should be monitored.					

Photo 1 of 1 : FA\_2018\_ST0012\_296\_23\_20180904\_00026.jpg



View of an erosion site around UCIP pipe FSID 13725 on waterward side of the levee. Fall 2016.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	1.57	Rating **	M	Issue No.	29
LM End	1.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.590064 °	38.590064 °
				-121.730723 °	-121.730723 °
DWR ID	DWR_ST0012_02_s_2017_29				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Tire damage on landside levee slope.					

Photo 1 of 1 : FA\_2018\_ST0012\_296\_29\_20180904\_00028.jpg



View of tire damage on landside levee slope. Spring 2017.

LM Start	1.77	Rating **	C	Issue No.	8
LM End	1.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.589966 °	38.589966 °
				-121.727072 °	-121.727072 °
DWR ID	DWR_ST0012_02_s_2012_8				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Repaired as of inspection date..					

No Photos

LM Start	2.04	Rating **	C	Issue No.	5
LM End	2.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.589906 °	38.589906 °
				-121.722218 °	-121.722218 °
DWR ID	DWR_ST0012_02_s_2012_5				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Repaired as of insecton date.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	2.25	Rating **	C	Issue No.	19
LM End	2.25	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.589845 °	38.589845 °
				-121.718292 °	-121.718292 °
DWR ID	DWR_ST0012_02_f_2015_19				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Repaired as of this inspection.					

No Photos

LM Start	2.73	Rating **	C	Issue No.	20
LM End	2.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.589707 °	38.589707 °
				-121.709429 °	-121.709429 °
DWR ID	DWR_ST0012_02_f_2015_20				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Repaired as of this inspection.					

No Photos

LM Start	2.82	Rating **	A/W	Issue No.	10
LM End	2.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.589691 °	38.589691 °
				-121.707740 °	-121.707740 °
DWR ID	DWR_ST0012_02_f_2014_10				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Eorsion on waterside toe road. Recommend monitoring.					

Photo 1 of 2 : FA\_2018\_ST0012\_296\_10\_20180905\_00032.jpg



Updated view of erosion on the waterside toe road. Fall 2018.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	2.82	Rating **	A/W	Issue No.	10 (cont)	
LM End	2.82	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.589691 °	38.589691 °	
				-121.707740 °	-121.707740 °	
DWR ID	DWR_ST0012_02_f _ 2014_10					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						
Eorsion on waterside toe road. Recommend monitoring.						

Photo 2 of 2 : FA\_2018\_ST0012\_296\_10\_20180904\_00011.jpg



View of the erosion on the toe road looking downstream. Spring 2016.

LM Start	2.97	Rating **	A/W	Issue No.	33
LM End	2.97	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.589680 °	38.589680 °
				-121.705040 °	-121.705040 °
DWR ID	538				
Comment Code					
Inspector Comment					
FS_ID:45291					
DS_ID:538					
EP_NO: 10328					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments: 04/12/2017 WS & LS - good/clear, inspected by JK, RF. (DWR Sacramento Yard - C. Lund)					
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Flap gate is located on the waterside (WS) end. (24-inch pipe [HLM 2.90] authorized under Automatic Board Order (ABO) issued as Permit No. 10328, 1974 - Heidrick). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 2 (Station 158+69)]					
FS Date: 5/14/2015 1:40:56 PM					

Photo 1 of 3 : UCIP\_FA\_2018\_45291\_22479.jpg



Landside view- concrete headwall and pipe (temporarily closed used wooden planks).

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	2.97	Rating **	A/W	Issue No.	33 (cont)	
LM End	2.97	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.589680 °	38.589680 °	
				-121.705040 °	-121.705040 °	
DWR ID	538					
Comment Code						
Inspector Comment						
FS_ID:45291						
DS_ID:538						
EP_NO: 10328						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 04/12/2017 WS & LS - good/clear, inspected by JK, RF. (DWR Sacramento Yard - C. Lund)						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Flap gate is located on the waterside (WS) end. (24-inch pipe [HLM 2.90] authorized under Automatic Board Order (ABO) issued as Permit No. 10328, 1974 - Heidrick). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 2 (Station 158+69)]						
FS Date: 5/14/2015 1:40:56 PM						

LM Start	<b>2.97</b>	Rating **	A/W	Issue No.	<b>33 (cont)</b>
LM End	<b>2.97</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_45291\_22478.jpg



Landside view- concrete headwall

Photo 3 of 3 : UCIP\_FA\_2018\_45291\_22477.jpg



Landside view- open ditch.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	2.98	Rating **	C	Issue No.	12
LM End	2.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.589673 °	38.589673 °
				-121.704690 °	-121.704690 °
DWR ID	DWR_ST0012_02_f_2017_12				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Tire ruts on landside slope.					

No Photos

LM Start	3.60	Rating **	M	Issue No.	6
LM End	3.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.589552 °	38.589552 °
				-121.693408 °	-121.693408 °
DWR ID	DWR_ST0012_02_f_2017_6				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Burrow hole on landside slope near access ramp.					

Photo 1 of 1 : FA\_2018\_ST0012\_296\_6\_20180904\_00003.jpg



View of burrow hole near access ramp on landside. Fall 2017.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	3.61	Rating **	A/W	Issue No.	34
LM End	3.61	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.589570 °	38.589570 °
				-121.693090 °	-121.693090 °
DWR ID	541				
Comment Code					
Inspector Comment					
FS_ID:45294					
DS_ID:541					
EP_NO: 10335					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments: 09/20/2012 Landside view photos are missing.					
Daylight pipe is a steel pipe. The pipe through the levee may be a CMP.					
(DWR UCIP - P. Amatya)					
FIELD_STRUCT_DESC: 1 of 2. 42-inch corrugated metal drainage pipe					
through the levee, 12 feet below the crown. Flap gate located on the					
waterside (WS) end. 42-inch pipe sleeved through a 48-inch corrugated					
metal pipe (CMP). (two 48-inch pipes [HLM 3.54] authorized under					
Automatic Board Order (ABO) issued as Permit No. 10335, 1974 -					
Snyder). [Additional Reference(s): DWR Levee Log, 1990. USACE					
Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation					
and Levee Construction, February 1947, (Station 192+80)]					
FS Date: 5/14/2015 1:41:55 PM					

LM Start	<b>3.61</b>	Rating **	A/W	Issue No.	<b>34 (cont)</b>
LM End	<b>3.61</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_45294\_22789.jpg



Waterside overview- middle 42-inch pipe.

Photo 2 of 3 : UCIP\_FA\_2018\_45294\_22788.jpg



Waterside overview-

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	3.61	Rating **	A/W	Issue No.	34 (cont)	
LM End	3.61	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.589570 °	38.589570 °	
				-121.693090 °	-121.693090 °	
DWR ID	541					
Comment Code						
Inspector Comment						
FS_ID:45294 DS_ID:541 EP_NO: 10335 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 09/20/2012 Landside view photos are missing. Daylight pipe is a steel pipe. The pipe through the levee may be a CMP. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 1 of 2. 42-inch corrugated metal drainage pipe through the levee, 12 feet below the crown. Flap gate located on the waterside (WS) end. 42-inch pipe sleeved through a 48-inch corrugated metal pipe (CMP). (two 48-inch pipes [HLM 3.54] authorized under Automatic Board Order (ABO) issued as Permit No. 10335, 1974 - Snyder). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, (Station 192+80)] FS Date: 5/14/2015 1:41:55 PM						

Photo 3 of 3 : UCIP\_FA\_2018\_45294\_22792.jpg



Waterside view- 42-inch steel pipe and flap gate.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	3.61	Rating **	A/W	Issue No.	35
LM End	3.61	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.589567 °	38.589567 °
				-121.693070 °	-121.693070 °
DWR ID	17729				
Comment Code					
Inspector Comment					
FS_ID:45295 DS_ID:17729 EP_NO: 10335 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 05/05/2017 48-inch pipe authorized under ABO/Permit No. 10335. Reference has been verified and this crossing is referenced correctly. No records were found to support the additional of the 42-inch through the 48-inch pipe. (DWR UCIP - O. Magana) 09/20/2012 Daylight pipe looks like steel pipe. The pipe through the levee may be a CMP. Needs a landside view photos which is missing. This pipe may be a 42-inch pipe mentioned in ABO 10333. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 2 of 2. 42-inch corrugated metal drainage pipe through the levee, 12 feet below the crown. Flap gate located on the waterside (WS) end. 42-inch pipe sleeved through a 48-inch corrugated metal pipe (CMP). (two 48-inch pipes [HLM 3.54] authorized under Automatic Board Order (ABO) issued as Permit No. 10335, 1974 - Snyder). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, (Station 192+88)] FS Date: 5/14/2015 1:42:08 PM					

LM Start	<b>3.61</b>	Rating **	A/W	Issue No.	<b>35 (cont)</b>
LM End	<b>3.61</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_45295\_22794.jpg



Waterside overview- far right 42-inch pipe.

Photo 2 of 3 : UCIP\_FA\_2018\_45295\_22793.jpg



Waterside view- 42-inch steel pipe and flap gate (right).

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	3.61	Rating **	A/W	Issue No.	35 (cont)	
LM End	3.61	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.589567 °	38.589567 °	
				-121.693070 °	-121.693070 °	
DWR ID	17729					
Comment Code						
Inspector Comment						
FS_ID:45295 DS_ID:17729 EP_NO: 10335 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 05/05/2017 48-inch pipe authorized under ABO/Permit No. 10335. Reference has been verified and this crossing is referenced correctly. No records were found to support the additional of the 42-inch through the 48-inch pipe. (DWR UCIP - O. Magana) 09/20/2012 Daylight pipe looks like steel pipe. The pipe through the levee may be a CMP. Needs a landside view photos which is missing. This pipe may be a 42-inch pipe mentioned in ABO 10333. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 2 of 2. 42-inch corrugated metal drainage pipe through the levee, 12 feet below the crown. Flap gate located on the waterside (WS) end. 42-inch pipe sleeved through a 48-inch corrugated metal pipe (CMP). (two 48-inch pipes [HLM 3.54] authorized under Automatic Board Order (ABO) issued as Permit No. 10335, 1974 - Snyder). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, (Station 192+88)] FS Date: 5/14/2015 1:42:08 PM						

Photo 3 of 3 : UCIP\_FA\_2018\_45295\_22796.jpg



Waterside overview- outlet structure.

LM Start	3.95	Rating **	A/W	Issue No.	18
LM End	3.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.589508 °	38.589508 °
				-121.686850 °	-121.686850 °
DWR ID	DWR_ST0012_02_s_2016_18				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_ST0012\_296\_18\_20180904\_00022.jpg



View of the erosion on the waterward side looking downstream. Spring 2016.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	4.09	Rating **	A/W	Issue No.	24
LM End	4.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.589538 °	38.589538 °
				-121.684177 °	-121.684177 °
DWR ID	DWR_ST0012_02_s_2018_24				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Runoff erosion on waterside toe road. Recommend monitoring.					

Photo 1 of 1 : FA\_2018\_ST0012\_296\_24\_20180904\_00027.jpg



View of erosion on the waterside toe road. Spring 2018.

LM Start	4.29	Rating **	A/W	Issue No.	11
LM End	4.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.589550 °	38.589550 °
				-121.680632 °	-121.680632 °
DWR ID	DWR_ST0012_02_f_2014_11				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion is near waterside toe on waterside berm at storm drain. Recommend monitoring.					

Photo 1 of 3 : FA\_2018\_ST0012\_296\_11\_20180904\_00012.jpg



An updated view of the erosion site near the WS levee slope. Fall 2016.

LM Start	<b>4.29</b>	Rating **	A/W	Issue No.	<b>11 (cont)</b>
LM End	<b>4.29</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA\_2018\_ST0012\_296\_11\_20180904\_00013.jpg



Perspective view of the site. Fall 2016.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	4.29	Rating **	A/W	Issue No.	11 (cont)	
LM End	4.29	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Erosion / Bank Caving			38.589550 °	38.589550 °	
				-121.680632 °	-121.680632 °	
DWR ID	DWR_ST0012_02_f_2014_11					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						
Erosion is near waterside toe on waterside berm at storm drain. Recommend monitoring.						

Photo 3 of 3 : FA\_2018\_ST0012\_296\_11\_20180904\_00014.jpg



View of the erosion at the edge of the channel on the waterward side of the levee looking downstream. Fall 2015.

LM Start	4.29	Rating **	A/W	Issue No.	36
LM End	4.29	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.589530 °	38.589530 °
				-121.680560 °	-121.680560 °
DWR ID	545				
Comment Code					
Inspector Comment					
FS_ID:45298					
DS_ID:545					
EP_NO: 10334					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments: 04/12/2017 WS - good/clear, LS - good/clear needs to be cut and sprayed, inspected by JK, RF. (DWR Sacramento Yard - C. Lund)					
05/24/2013 Rodent activities on headwall is far from the levee. Inlet is across city of davis drainage ditch. Inlet was cleaned last fall. see picture. (DWR Sacramento Yard - C. Lund)					
09/20/2012 May need video inspection as seen rodent activities on headwall. (DWR UCIP - P. Amatya)					
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Flap gate is located on the waterside (WS) end. (24-inch pipe [HLM 4.21] authorized under Automatic Board Order (ABO) issued as Permit No. 10334 - Rhinehart)					
[Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 2 (Station 228+46)]					
FS Date: 5/14/2015 1:43:00 PM					

Photo 1 of 3 : UCIP\_FA\_2018\_45298\_22805.jpg



Waterside overview- pipe and flap gate with dense vegetation.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	4.29	Rating **	A/W	Issue No.	36 (cont)
LM End	4.29	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.589530 °	38.589530 °
				-121.680560 °	-121.680560 °
DWR ID	545				
Comment Code					
Inspector Comment					
FS_ID:45298 DS_ID:545 EP_NO: 10334 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 WS - good/clear, LS - good/clear needs to be cut and sprayed, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 05/24/2013 Rodent activities on headwall is far from the levee. Inlet is across city of davis drainage ditch. Inlet was cleaned last fall. see picture. (DWR Sacramento Yard - C. Lund) 09/20/2012 May need video inspection as seen rodent activities on headwall. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Flap gate is located on the waterside (WS) end. (24-inch pipe [HLM 4.21] authorized under Automatic Board Order (ABO) issued as Permit No. 10334 - Rhinehart) [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 2 (Station 228+46)] FS Date: 5/14/2015 1:43:00 PM					

LM Start	<b>4.29</b>	Rating **	A/W	Issue No.	<b>36 (cont)</b>
LM End	<b>4.29</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_45298\_22804.jpg



Landside overview

Photo 3 of 3 : UCIP\_FA\_2018\_45298\_22808.jpg



Enter photo 5 description or comment here.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	4.59	Rating **	M	Issue No.	37
LM End	4.59	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.589575 °	38.589575 °
				-121.674950 °	-121.674950 °
DWR ID	546				
Comment Code					
Inspector Comment					
FS_ID:45285 DS_ID:546 EP_NO: 10319 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 04/12/2017 WS & LS - good/clear, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 05/24/2013 Material removed from inlet last fall. Outlet cleared. (DWR Sacramento Yard - C. Lund) 09/20/2012 Soil and debris on inlet mouth. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Flap gate is located on the waterside (WS) end. (18-inch pipe [HLM 4.52] authorized under Automatic Board Order (ABO) issued as Permit No. 10319, 1974 - Bell) [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station 244+47)] FS Date: 5/14/2015 1:36:11 PM					

LM Start	<b>4.59</b>	Rating **	M	Issue No.	<b>37 (cont)</b>
LM End	<b>4.59</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_45285\_22809.jpg



Waterside view- pipe and flap gate.

Photo 2 of 3 : UCIP\_FA\_2018\_45285\_22811.jpg



Landside view- pipe and headwall.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	4.59	Rating **	M	Issue No.	37 (cont)	
LM End	4.59	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.589575 °	38.589575 °	
				-121.674950 °	-121.674950 °	
DWR ID	546					
Comment Code						
Inspector Comment						
FS_ID:45285 DS_ID:546 EP_NO: 10319 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 04/12/2017 WS & LS - good/clear, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 05/24/2013 Material removed from inlet last fall. Outlet cleared. (DWR Sacramento Yard - C. Lund) 09/20/2012 Soil and debris on inlet mouth. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Flap gate is located on the waterside (WS) end. (18-inch pipe [HLM 4.52] authorized under Automatic Board Order (ABO) issued as Permit No. 10319, 1974 - Bell) [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station 244+47)] FS Date: 5/14/2015 1:36:11 PM						

Photo 3 of 3 : UCIP\_FA\_2018\_45285\_22810.jpg



Landside view- soil and debris on mouth of the inlet pipe.

LM Start	5.05	Rating **	A/W	Issue No.	15
LM End	5.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.589570 °	38.589570 °
				-121.666588 °	-121.666588 °
DWR ID	DWR_ST0012_02_s_2015_15				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion near levee toe on waterside berm at storm drain. Recommend monitoring.					

Photo 1 of 3 : FA\_2018\_ST0012\_296\_15\_20180904\_00018.jpg



An updated view of the erosion site near the levee slope. Fall 2016.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	5.05	Rating **	A/W	Issue No.	15 (cont)	
LM End	5.05	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Erosion / Bank Caving			38.589570 °	38.589570 °	
				-121.666588 °	-121.666588 °	
DWR ID	DWR_ST0012_02_s_2015_15					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						
Erosion near levee toe on waterside berm at storm drain. Recommend monitoring.						

Photo 2 of 3 : FA\_2018\_ST0012\_296\_15\_20180904\_00019.jpg



View of the erosion on the edge of the channel on the waterward side of the levee. Spring 2015.

LM Start	<b>5.05</b>	Rating **	A/W	Issue No.	<b>15 (cont)</b>
LM End	<b>5.05</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : FA\_2018\_ST0012\_296\_15\_20180904\_00020.jpg



View of the erosion at the edge of the channel on the waterward side of the levee looking downstream. Fall 2015.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	5.05	Rating **	A/W	Issue No.	38
LM End	5.05	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.589560 °	38.589560 °
				-121.666540 °	-121.666540 °
DWR ID	548				
Comment Code					
Inspector Comment					
FS_ID:45301 DS_ID:548 EP_NO: 10321 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 WS - good/clear, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) FIELD_STRUCT_DESC: 24-inch drainage pipe through the levee, 17 feet below the crown. Flap gate is located on the waterside (WS) end. (24-inch pipe [HLM 4.97] authorized under Automatic Board Order (ABO) issued as Permit No. 10321, 1974 - Campbell) [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station 268+57)] FS Date: 5/14/2015 1:44:17 PM					

Photo 1 of 3 : UCIP\_FA\_2018\_45301\_22845.jpg



Landside view- overview

LM Start	<b>5.05</b>	Rating **	A/W	Issue No.	<b>38 (cont)</b>
LM End	<b>5.05</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_45301\_22844.jpg



Waterside view- overview

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	5.05	Rating **	A/W	Issue No.	38 (cont)	
LM End	5.05	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.589560 °	38.589560 °	
				-121.666540 °	-121.666540 °	
DWR ID	548					
Comment Code						
Inspector Comment						
FS_ID:45301 DS_ID:548 EP_NO: 10321 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 WS - good/clear, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) FIELD_STRUCT_DESC: 24-inch drainage pipe through the levee, 17 feet below the crown. Flap gate is located on the waterside (WS) end. (24-inch pipe [HLM 4.97] authorized under Automatic Board Order (ABO) issued as Permit No. 10321, 1974 - Campbell) [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station 268+57)] FS Date: 5/14/2015 1:44:17 PM						

Photo 3 of 3 : UCIP\_FA\_2018\_45301\_22846.jpg



Waterside view- pipe and flap gate. Water was running in the pipe during the survey.

LM Start	5.09	Rating **	A/W	Issue No.	17
LM End	5.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.589565 °	38.589565 °
				-121.665731 °	-121.665731 °
DWR ID	DWR_ST0012_02_f_2016_17				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_ST0012\_296\_17\_20180904\_00021.jpg



View of a site that may become a larger erosion site in the future. Waterward side of the levee looking downstream. Fall 2016.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	5.40	Rating **	A/W	Issue No.	39
LM End	5.40	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.589540 °	38.589540 °
				-121.660070 °	-121.660070 °
DWR ID	549				
Comment Code					
Inspector Comment					
FS_ID:45302 DS_ID:549 EP_NO: 10322 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 WS - submerged in water, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 17.5 feet below the crown. Flap gate is located on the waterside (WS) end. Concrete headwall with wing walls is located on WS. (24-inch pipe [HLM 5.32] authorized under Automatic Board Order (ABO) issued as Permit No. 10322, 1974 - Chew). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station 287+19)] FS Date: 5/14/2015 1:44:30 PM					

LM Start	<b>5.40</b>	Rating **	A/W	Issue No.	<b>39 (cont)</b>
LM End	<b>5.40</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_45302\_22849.jpg



Landside view-overview

Photo 2 of 3 : UCIP\_FA\_2018\_45302\_22848.jpg



Waterside view-pipe and flap gate

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	5.40	Rating **	A/W	Issue No.	39 (cont)	
LM End	5.40	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.589540 °	38.589540 °	
				-121.660070 °	-121.660070 °	
DWR ID	549					
Comment Code						
Inspector Comment						
FS_ID:45302 DS_ID:549 EP_NO: 10322 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 WS - submerged in water, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 17.5 feet below the crown. Flap gate is located on the waterside (WS) end. Concrete headwall with wing walls is located on WS. (24-inch pipe [HLM 5.32] authorized under Automatic Board Order (ABO) issued as Permit No. 10322, 1974 - Chew). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station 287+19)] FS Date: 5/14/2015 1:44:30 PM						

Photo 3 of 3 : UCIP\_FA\_2018\_45302\_22847.jpg



Waterside view- overview

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	5.57	Rating **	A/W	Issue No.	40
LM End	5.57	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.589520 °	38.589520 °
				-121.656860 °	-121.656860 °
DWR ID	551				
Comment Code					
Inspector Comment					
FS_ID:45305 DS_ID:551 EP_NO: 10325 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 WS & LS - submerged in water, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 09/20/2012 Slide gate on landside of the levee over the field. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 18 feet below the crown. Flap gate is located on the waterside (WS) end. (24-inch pipe [HLM 5.50] authorized under Automatic Board Order (ABO) issued as Permit No. 10325, 1974 - Ferris). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station 296+34)] FS Date: 5/14/2015 1:45:21 PM					

LM Start	<b>5.57</b>	Rating **	A/W	Issue No.	<b>40 (cont)</b>
LM End	<b>5.57</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_45305\_22861.jpg



Landside view- inlet structure.

Photo 2 of 3 : UCIP\_FA\_2018\_45305\_22860.jpg



Landside view- concrete headwall and slide gate.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	5.57	Rating **	A/W	Issue No.	40 (cont)	
LM End	5.57	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.589520 °	38.589520 °	
				-121.656860 °	-121.656860 °	
DWR ID	551					
Comment Code						
Inspector Comment						
FS_ID:45305 DS_ID:551 EP_NO: 10325 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 WS & LS - submerged in water, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 09/20/2012 Slide gate on landside of the levee over the field. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 18 feet below the crown. Flap gate is located on the waterside (WS) end. (24-inch pipe [HLM 5.50] authorized under Automatic Board Order (ABO) issued as Permit No. 10325, 1974 - Ferris). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station 296+34)] FS Date: 5/14/2015 1:45:21 PM						

Photo 3 of 3 : UCIP\_FA\_2018\_45305\_22859.jpg



Waterside view- overview.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	5.59	Rating **	A/W	Issue No.	41
LM End	5.59	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.589520 °	38.589520 °
				-121.656550 °	-121.656550 °
DWR ID	552				
Comment Code					
Inspector Comment					
FS_ID:45306 DS_ID:552 EP_NO: 10338 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 WS - submerged in water, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 09/20/2012 Open inlet over the field. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. Flap gate is located on the waterside (WS) end. (36-inch pipe [HLM 5.51] authorized under Automatic Board Order (ABO) issued as Permit No. 10325, 1974 - Ferris) [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station 297+26)] FS Date: 5/14/2015 1:45:32 PM					

LM Start	<b>5.59</b>	Rating **	A/W	Issue No.	<b>41 (cont)</b>
LM End	<b>5.59</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_45306\_22873.jpg



Waterside view- overview.

Photo 2 of 3 : UCIP\_FA\_2018\_45306\_22872.jpg



Waterside view- pipe and flap gate.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	5.59	Rating **	A/W	Issue No.	41 (cont)	
LM End	5.59	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.589520 °	38.589520 °	
				-121.656550 °	-121.656550 °	
DWR ID	552					
Comment Code						
Inspector Comment						
FS_ID:45306 DS_ID:552 EP_NO: 10338 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 WS - submerged in water, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 09/20/2012 Open inlet over the field. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. Flap gate is located on the waterside (WS) end. (36-inch pipe [HLM 5.51] authorized under Automatic Board Order (ABO) issued as Permit No. 10325, 1974 - Ferris) [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station 297+26)] FS Date: 5/14/2015 1:45:32 PM						

Photo 3 of 3 : UCIP\_FA\_2018\_45306\_22876.jpg



Waterside view- pipe and flap gate.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	6.07	Rating **	A/W	Issue No.	42
LM End	6.07	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.589040°	38.589040°
				-121.647870°	-121.647870°
DWR ID	553				
Comment Code					
Inspector Comment					
FS_ID:45307 DS_ID:553 EP_NO: 10325 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 WS - submerged in water, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 09/20/2012 Outlet structure under water in waterside of the levee. No access to the inlet structure. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 18 feet below the crown. Flap gate is located on the waterside (WS) end. (24-inch pipe [HLM 5.98] authorized under Automatic Board Order (ABO) issued as Permit No. 10325, 1974 - Ferris) [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station 328+51)] FS Date: 5/14/2015 1:45:44 PM					

Photo 1 of 3 : UCIP\_FA\_2018\_45307\_22869.jpg



Waterside view- overview

LM Start	<b>6.07</b>	Rating **	A/W	Issue No.	<b>42 (cont)</b>
LM End	<b>6.07</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_45307\_22868.jpg



Waterside view- outlet structure under the water.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	6.07	Rating **	A/W	Issue No.	42 (cont)	
LM End	6.07	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.589040 °	38.589040 °	
				-121.647870 °	-121.647870 °	
DWR ID	553					
Comment Code						
Inspector Comment						
FS_ID:45307 DS_ID:553 EP_NO: 10325 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 WS - submerged in water, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 09/20/2012 Outlet structure under water in waterside of the levee. No access to the inlet structure. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 18 feet below the crown. Flap gate is located on the waterside (WS) end. (24-inch pipe [HLM 5.98] authorized under Automatic Board Order (ABO) issued as Permit No. 10325, 1974 - Ferris) [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station 328+51)] FS Date: 5/14/2015 1:45:44 PM						

Photo 3 of 3 : UCIP\_FA\_2018\_45307\_22870.jpg



Landside view- overview

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	7.01	Rating **	A/W	Issue No.	43
LM End	7.01	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.575750 °	38.575750 °
				-121.646420 °	-121.646420 °
DWR ID	555				
Comment Code					
Inspector Comment					
FS_ID:45309 DS_ID:555 EP_NO: 10338 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 WS & LS - submerged in water, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) FIELD_STRUCT_DESC: 42-inch corrugated metal drainage pipe through the levee, 23.5 feet below the crown. Flap gate is located on the waterside (WS) end. Concrete headwall with wing walls is located on the landside (LS). (42-inch pipe [HLM 6.92] authorized under Automatic Board Order (ABO) issued as Permit No. 10338, 1974 - Woodland Farms, Ltd) [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 5 (Station 374+00)] FS Date: 5/14/2015 1:46:34 PM					

LM Start	<b>7.01</b>	Rating **	A/W	Issue No.	<b>43 (cont)</b>
LM End	<b>7.01</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_FA\_2018\_45309\_22878.jpg



Landside view- Wing wall and pipe

Photo 2 of 2 : UCIP\_FA\_2018\_45309\_22877.jpg



Waterside view- pipe and flap gate

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sacramento Maintenance Yard Willow Slough Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	09/05/2018 09/05/2018	Zach Jojola

LM Start	<b>7.02</b>	Rating **	<b>C</b>	Issue No.	<b>25</b>
LM End	<b>7.02</b>	Issue Type +	<b>Ma</b>	Location *	<b>WS</b>
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.575607°	38.575607°	
			-121.646203°	-121.646203°	
DWR ID	DWR_ST0012_02_s_2018_25				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Rutts on waterside slope.					

No Photos

**\* Location**  
 LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**  
 A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
 Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement